

Amendments
to the
Water Quality Control Plan – Los Angeles Region
for the
Revolon Slough and Beardsley Wash Trash TMDL

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Amendments:

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**Chapter 7. Total Maximum Daily Loads (TMDLs)
Revolon Slough and Beardsley Wash Trash TMDL**

This TMDL was adopted by:

- The Regional Water Quality Control Board on [Insert Date].
- The State Water Resources Control Board on [Insert Date].
- The Office of Administrative Law on [Insert Date].
- The U.S. Environmental Protection Agency on [Insert Date].

The elements of the TMDL are presented in Table 7-24.1 and the Implementation Plan in Tables 7-24.2a and 7-24.2b.

Table 7-24.1 Revolon Slough and Beardsley Wash Trash TMDL: Elements

Element	Derivation of Numbers
<i>Problem Statement</i>	Current levels of trash discharges into Revolon Slough and Beardsley Wash violate water quality objectives and are impairing beneficial uses. Relevant water quality objectives include Floating Material and Solid, Suspended, or Settleable Materials. The following designated beneficial uses are impacted by trash: water contact recreation (REC1); non-contact water recreation (REC2); warm freshwater habitat (WARM); wildlife habitat (WILD); wetland habitat (WET).
<i>Numeric Target</i> <i>(interpretation of the narrative water quality objective, used to calculate the load allocations)</i>	Zero trash in Revolon Slough and Beardsley Wash and adjacent land area. Zero is defined as no trash immediately following each assessment and collection event consistent with an established Minimum Frequency. The Minimum Frequency is established at an interval that prevents trash from accumulating in concentrations that cause nuisance or adversely affect beneficial uses between collections.
<i>Source Analysis</i>	Nonpoint source discharges are the major source of trash loading to the Revolon Slough and Beardsley Wash. Point sources such as storm drains are minor sources of trash discharged to Revolon Slough and Beardsley Wash.
<i>Loading Capacity</i>	Zero, as defined in the Numeric Target.
<i>Waste Load Allocations (for point sources)</i>	Waste Load Allocations (WLAs) are assigned the California Department of Transportation (Caltrans) Permittees and Co-Permittees of the Ventura County Municipal Separate Storm Sewer System (MS4) Permit, including the Ventura County Watershed Protection District, the City of Camarillo, and the City of Oxnard, and local landowners. WLAs may be issued to additional responsible jurisdictions in the future under Phase II of the US EPA Stormwater Permitting Program, or other applicable regulatory programs. WLAs are zero trash.

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<p>Load Allocations (for nonpoint sources)</p>	<p>Load Allocations (LAs) are assigned to land owners and agencies in the vicinity of Revolon Slough and Beardsley Wash, including the County of Ventura, City of Camarillo, City of Oxnard, and Agricultural entities in the Revolon Slough and Beardsley Wash subwatersheds. LAs may be issued to additional responsible jurisdictions in the future under applicable regulatory programs. LAs are zero trash.</p>
<p>Implementation</p>	<p>Implementation of the trash TMDL for Revolon Slough and Beardsley Wash includes structural and non-structural best management practices (BMPs) and a program for a minimum frequency of assessment and collection to address point and nonpoint trash sources.</p> <p>Baseline WLAs and LAs are based on a reference system/antidegradation approach using trash removal data from the City of Calabasas. The "reference system/anti-degradation approach" means that on the basis of historical trash generation rates at an existing monitoring location most similar to Revolon Slough and Beardsley Wash, a baseline amount of trash discharged is permitted initially under the TMDL schedule. The allowable amount of trash is set such that (1) water quality at any site is at least as good as at the designated reference site and (2) there is no degradation of existing water quality based on existing amounts of trash.</p> <p>Point Sources</p> <p>WLAs will be implemented through storm water permits and via the authority vested in the Executive Officer by section 13267 of the Porter-Cologne Water Quality Control Act (Water Code section 13000 et seq.).</p> <p>Point source dischargers may achieve compliance with the WLA using either of two approaches: 1) implementing full capture systems on storm drains through a progressive implementation schedule, or 2) implementing a program for minimum frequency of assessment and collection (MFAC) in conjunction with a progressive trash reduction schedule.</p> <p>1. Compliance with the final WLA may be achieved through an adequately sized and maintained full capture system that has been certified by the Executive Officer. A full capture system is any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one-year, one-hour, storm in the sub-drainage area. The Rational equation is used to compute the peak flow rate:</p>

	<p>$Q = C \times I \times A$, where Q = design flow rate (cubic feet per second, cfs); C = runoff coefficient (dimensionless); I = design rainfall intensity (inches per hour, data collected by Ventura County Watershed Protection District may be referenced, available at www.vcwatershed.org/hydrodata/htdocs/static); and A = subdrainage area (acres).</p> <p>Point sources that choose to comply via a full capture system, will receive WLAs based on a phased reduction from a reference baseline over an 8-year period until the final WLA of zero is attained. Zero will be deemed to have been met if full capture systems have been installed on all storm drains discharging to Revolon Slough, Beardsley Wash and their tributaries. The default Baseline WLA is equal to 640 gallons of uncompressed trash per square mile per year removed from the waterbody and its adjacent land area. The Baseline WLAs may be revised by the Regional Board based on data collected during the Monitoring Program.</p> <p>2. Compliance through a MFAC program and a progressive trash reduction schedule may be proposed to the Regional Board for incorporation into the relevant NPDES permit. The MFAC program must include requirements analogous to the Nonpoint Source Conditional Waiver set forth below.</p> <p>Nonpoint Sources</p> <p>LAs are based on a phased reduction over 5 years. The default baseline LA is equal to 640 gallons of uncompressed trash per square mile per year. The baseline LA may be revised by the Regional Board based on data collected during the Monitoring Program.</p> <p>LAs shall be implemented through either (1) A conditional waiver that implements a MFAC Program, or (2) an alternative program subject to individual waste discharge requirements.</p> <p>(1) Conditional Waiver: Pursuant to Water Code section 13269, waste discharge requirements are waived for any responsible jurisdiction that submits a MFAC Program, which, to the satisfaction of the Executive Officer, meets the following criteria:</p> <p style="margin-left: 40px;">a) The MFAC Program includes a minimum frequency of trash assessment and collection that includes pickup of all the visible trash in the water and on the adjacent land. For the Revolon Slough and</p>
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	<p>Beardsley Wash trash TMDL, the default minimum frequency shall initially be set at twice per week.</p> <ul style="list-style-type: none">b) The MFAC Program requires that trash collected will not exceed baseline LAs, and ensures trash collected from the waterbody and adjacent land area will decline by 50% over five years, consistent with the requirements set forth in Table 24.2b, below. Furthermore, the Program must describe how the jurisdiction will respond if trash assessment and collection events indicate that trash reductions are not proceeding on schedule.c) The MFAC Program includes a proposed definition for major rain event as part of the monitoring plan to be approved by the Executive Officer.d) The MFAC Program includes reasonable assurances that it will be implemented by the responsible jurisdiction.e) The MFAC Program includes a monitoring and reporting plan, as described below, and a requirement that the responsible agency will self-report any non-compliance with its provisions. MFAC protocols may be based on SWAMP protocols for rapid trash assessment. <p>The Executive Officer may approve or require a revised monitoring frequency under the waiver:</p> <ul style="list-style-type: none">(a) To reflect the results of trash assessment;(b) If the amount of trash collected is increasing such that a shorter interval between collections is warranted; or(c) If the amount of trash collected is decreasing such that a longer interval between collections is warranted. <p>Additionally, the monitoring frequency shall be increased if the Executive Officer determines that the amount of trash accumulating between collections is causing nuisance or otherwise adversely affecting beneficial uses including water contact recreation (REC1); non-contact water recreation (REC2); warm freshwater habitat (WARM); wildlife habitat (WILD); wetland habitat (WET).</p> <p>With regard to (a) or (b), above, the Executive Officer is authorized to allow responsible jurisdictions to implement additional structural or non-structural BMPs in lieu of modifying the monitoring frequency if he determines doing so will abate the noncompliance with the waiver.</p> <p>This waiver shall expire pursuant to Water Code section 13269 five years after the effective date of this TMDL,</p>
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	<p>unless reissued. The Regional Board may reissue this waiver through an order consistent herewith, instead of readopting these regulatory provisions.</p> <p>(2) Alternatively, responsible jurisdictions may propose, or the Regional Board may impose, an alternative program which would be implemented through waste discharge requirements or an individual waiver, provided the program is consistent with the assumptions and requirements of the reductions described in Table 7-24.2b, below.</p> <p>Within sixty days of the effective date of this TMDL, the Executive Officer shall require responsible jurisdictions to submit either a notice of intent to be regulated under the conditional waiver with their proposed MFAC Program or a report of waste discharge.</p>
<p>Monitoring and Reporting Plan</p>	<p>Responsible jurisdictions will develop a Monitoring and Reporting Plan for Executive Officer approval that describes the methodologies that will be used to assess and monitor trash in Revolon Slough and Beardsley Wash. A portion of the plan may include a plan to establish alternative Baseline WLAs and LAs.</p> <p>Minimum requirements for trash monitoring shall include assessment and quantification of trash collected from the surfaces and banks of Revolon Slough and Beardsley Wash. The monitoring plan shall provide details of the frequency, location, and reporting of trash monitoring. Responsible jurisdictions shall propose a metric (e.g., weight, volume, pieces of trash) to measure the amount of trash in the waterbody and on the adjacent land area. Responsible Jurisdictions may coordinate their trash monitoring activities for Revolon Slough and Beardsley Wash.</p>
<p>Margin of Safety</p>	<p>“Zero discharge” is a conservative standard which contains an implicit margin of safety. A progressive schedule of trash reduction during the course of the implementation plan increases the margin of safety.</p>
<p>Seasonal Variations and Critical Conditions</p>	<p>Discharge of trash from the storm drain occurs primarily during or shortly after a major rain event. Discharge of trash from nonpoint sources occurs primarily during or shortly after high wind events, which are defined as periods of wind advisories issued by the National Weather Service.</p>

**Table 7-24.2a. Revolon Slough and Beardsley Wash Trash TMDL:
Full Capture Implementation Schedule**

Task No.	Task	Responsible Jurisdiction	Date
1	Baseline Waste Load Allocations in Effect	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with storm drains	Effective Date of TMDL
2	Submit Monitoring and Reporting Plan	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with storm drains	Sixty days from receipt of Order from Regional Board Executive Officer
3	Implement Monitoring and Reporting Program	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with storm drains	Sixty days from receipt of letter of approval from Regional Board Executive Officer
4	Regional Board Reconsideration of Baseline Waste Load Allocations	Regional Board	Two years from effective date of TMDL
5	Installation of BMPs to achieve 20% reduction of trash from Baseline WLA*	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with storm drains	Four years from effective date of TMDL
6	Installation of BMPs to achieve 40% reduction of trash from Baseline WLA*	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with storm drains	Five years from effective date of TMDL
7	Installation of BMPs to achieve 60% reduction of trash from Baseline WLA*	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with storm drains	Six years from effective date of TMDL
8	Installation of BMPs to achieve 80% reduction of trash from Baseline WLA*	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with storm drains	Seven years from effective date of TMDL
9	Installation of BMPs to achieve 100% reduction of trash from Baseline WLA*	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with storm drains	Eight years from effective date of TMDL

*Compliance with percent reductions from the Baseline WLA will be assumed wherever full capture systems are installed in corresponding percentages of the storm drain system discharging to Revolon Slough, Beardsley Wash, and their tributaries.

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**Table 7-24.2b. Revolon Slough and Beardsley Wash Trash TMDL:
Minimum Frequency Assessment and Collection Schedule**

Task No.	Task	Responsible Jurisdiction	Date
1	Conditional Waiver in Effect	City of Camarillo; City of Oxnard; Ventura County; Agriculture; Ventura County Watershed Protection District; Caltrans; Local land owners with storm drains	Regional Board adoption of TMDL
2	Baseline Waste Load and Load Allocations in Effect	City of Camarillo; City of Oxnard; Ventura County; Agriculture; Ventura County Watershed Protection District; Caltrans; Local land owners with storm drains	Effective date of TMDL
3	Submit Notice of Intent to Comply with Conditional Waiver of Discharge Requirements, including minimum Frequency Assessment and Collection (MFAC) Program Plan	City of Camarillo; City of Oxnard; Ventura County; Agriculture; Ventura County Watershed Protection District; Caltrans; Local land owners with storm drains	Sixty days from effective date of TMDL
4	Implement MFAC Program	City of Camarillo; City of Oxnard; Ventura County; Agriculture; Ventura County Watershed Protection District; Caltrans; Local land owners with storm drains	Sixty days from receipt of Notice of Acceptance from Regional Board Executive Officer
5	Regional Board Reconsideration of Baseline WLAs and LAs.	Regional Board	Two years from effective date of TMDL
6	Installation of BMPs to achieve 10% reduction of trash from Baseline WLA and LA	City of Camarillo; City of Oxnard; Ventura County; Agriculture; Ventura County Watershed Protection District; Caltrans; Local land owners with storm drains	Three years from effective date of TMDL
7	Installation of BMPs to achieve 30% reduction of trash from Baseline WLA and LA	City of Camarillo; City of Oxnard; Ventura County; Agriculture; Ventura County Watershed Protection District; Caltrans; Local land owners with storm drains	Four years from effective date of TMDL
8	Installation of BMPs to achieve 50% reduction of trash from Baseline WLA and LA	City of Camarillo; City of Oxnard; Ventura County; Agriculture; Ventura County Watershed Protection District; Caltrans; Local land owners with storm drains	Five years from effective date of TMDL

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